

# ***IDOT PTC Safety Working Group***

- **Members Represent :**

NAJPTC Program Office, AAR, Union Pacific, UVA, CANAC, Battelle, ARINC, Amtrak, FRA (Safety and RR Dev), CSX, BNSF, Lockheed Martin, Wabtec.

- **WG Tasked to:**

- Review Safety CDRL's and supporting documents:
  - Assure they fulfill the PSP and RSPP.
  - Assure they conform to NPRM requirements.
  - Assure that the safety approach is comprehensive.
- Enhance the safety assurance of the PTC system.
- Provide guidance to the PTC contractor team.

## ***IDOT PTC Safety Working Group***

- **WG involvement in program increased greatly throughout 2001.**
- **Contractor recognized fact that design was moving ahead of safety program -**
  - Created internal expert Safety Focus Team in Jan. '02 to apply resources.
- **Efforts of combined Working Group and Focus Team have been more productive since then.**

## ***Scope of Recent Safety WG Efforts***

- **Oversee the Safety Program such that it meets NPRM requirements for a PSP.**
- **Help contractor produce a viable safety plan, safety tracking mechanism, and task schedule.**
- **Involve stakeholders in the safety process, and in the content review of all safety documentation.**
- **Provide detailed feedback concerning contractor's safety analysis and documentation.**
- **Hold regular series of Safety Focus Meetings to:**
  - Address safety issues.
  - Achieve consensus on safety process / mitigations.
  - Keep intense focus on safety.

# ***IDOT PTC Safety Program Results***

- **The following PSP (per NPRM 236.907) items have been substantially completed:**
  - PSP “container” Document itself.
  - PTC System Description – PO approved.
  - Preliminary Hazard Analysis (PHA) Document.
  - Safety Assurance Concepts Document (SAC).
  - Hazard Log database, which is the “key” to safety action tracking, being used within SDI.
  - Currently under Working Group review:
    - Revised Functional Fault Tree (FFT).
    - Revised Safety Requirements Document (SRD).

## ***IDOT PTC Safety WG – Upcoming Actions***

- **Continue document review and feedback process.**
- **Ensure that safety requirements are fully integrated in the Build 2 design process.**
- **Address need for operating rules and procedures.**
- **Ensure that the V & V process encompasses adequate safety review and testing.**
- **Oversee coordination with UVA ASCAP simulation work.**
- **Ensure all stakeholders are involved in the safety process -**
  - **Hold next Safety Focus Meeting in mid-June.**
  - **Drive toward consensus that supports the safety conclusions to be made in the Final PSP.**

## ***Program Summary***

- **Program has begun Delivering NPRM-specified Documents to FRA**
- **Solid, NPRM-compliant Safety Program Established**
- **Hardware Developed & being Installed**
- **Build 1 Field Test on IDOT Corridor to begin in July**

***Good Progress and Momentum***